PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Morito MORISHIMA

Serial No.: 10/589,783

Filed: 17 August 2006

Title: SOUND REPRODUCING APPARATUS AND METHOD OF IDENTIFYING POSITIONS OF SPEAKERS

Group Art Unit: 2614

Examiner: D. Paul

Attorney Docket No.: YAMA-0138

Confirmation No.: 9499

VIA EFS-WEB
10 JANUARY 2011

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REQUEST FOR CORRECTED NOTICE OF ALLOWABILITY

Sir:

Applicant requests the PTO to correct errors appearing in the Notice of Allowability.

The allowed claims are 1, **3**, 11, 12, and 14 and not 1, **2**, 11, 12, and 14. For the convenience of the USPTO, a copy of the claims appearing in the Amendment filed on 14 November 2010 is enclosed.

Applicant requests the PTO to forward a corrected Notice of Allowance.

Respectfully submitted,

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10 JANUARY 2011
DATE

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IN THE CLAIMS

The status of the claims as presently amended is as follows:

1. (*Previously Presented*) A sound reproducing apparatus for driving a plurality of speakers with two of the speakers having a known distance therebetween to reproduce multi-channel sound, the sound reproducing apparatus comprising:

a generator configured to generate a measuring signal and supply the measuring signal to each of the plurality of speakers;

at least two sensors positionable to a listening position, each of the at least two sensors transmitting a reception notification when receiving a measuring sound wave radiated from each of the speakers in accordance with the measuring signal;

a time difference measuring unit configured to measure a time difference between a time instant when the measuring signal is generated and a time instant when the reception notification is received from each of the at least two sensors;

a distance calculator configured to calculate a distance between the at least two sensors and a distance between each of the at least two sensors and each of the two speakers based on the measured time difference and the known distance between the two speakers;

a position calculator configured to calculate a position of each of the two speakers based on the calculated distance between the at least two sensors and the calculated distance between each of the two speakers from each of the at least two sensors; and

a storage that stores the calculated position of the two speakers relative to the at least two sensors.

2. (*Canceled*)

3. (*Previously Presented*) The sound reproducing apparatus according to Claim 1, further comprising a sound field controller configured to produce sound image localization as if the speakers were located in predetermined recommended positions, respectively, based on respective positions of the speakers stored in the storage.

4-10. (*Canceled*)

11. (*Previously Presented*) A method of identifying a position of each of a plurality of speakers using at least two sensors disposed in a listening position, the method comprising the steps of:

supplying the measuring signal in turn to two of the plurality of speakers having a known distance from each other;

transmitting a reception notification when each of the at least two sensors receives a measuring sound wave radiated from each of the two speakers in accordance with the measuring signal;

measuring a time difference between a time instant when the measuring signal is generated and a time instant when the reception notification is received from each of the at least two sensors for each of the two speakers;

calculating a distance between the at least two sensors and a distance between each of the two sensors and each of the two speakers based on the measured time difference and the known distance between the two speakers;

calculating positions of the at least two sensors relative to the two speakers based on the calculated distance between the at least two sensors and the calculated distance between each of the two speakers and each of the at least two sensors;

calculating a position of each of the other of the plurality of speakers based on the calculated positions of the at least two sensors relative to the two speakers; and

storing the calculated position of each of the speakers into a storage.

12. (*Previously Presented*) The sound reproducing apparatus according to Claim 1, wherein each of the at least two sensors is positionable independent of the other.

13. (*Canceled*)

14. (*Previously Presented*) The method according to Claim 11, wherein each of the at least two sensors is positionable independent of the other.

Electronic Acknowledgement Receipt

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International Application Number:	
Confirmation Number:	9499
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First Named Inventor/Applicant Name:	Morito Morishima
Customer Number:	37013
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Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)

1	Extension of Time	YAMA-0138-FOA1_Amend_EOT.pdf	51230 5b3bdb7ec7c2738fbec9ae8c1199310901b2b115	no	1
Warnings:					
Information:					
2		YAMA-0138-FOA1_Amend.pdf	83136 8f5a4ceb940702773c8ccad350ccb19cf3564ee5	yes	4

Multipart Description/PDF files in .zip description

Document Description	Start	End
Amendment After Final	1	1
Claims	2	3
Applicant Arguments/Remarks Made in an Amendment	4	4

Warnings:					
Information:					
3	Fee Worksheet (PTO-875)	fee-info.pdf	29797 f850133e0abc68561f3a58cb7f6813126352deb6	no	2
Warnings:					
Information:					
Total Files Size (in bytes):			164163		

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